

What is claimed is:

1. A fingerprint recognition sensor comprising:
a CMOS image sensor;
5 a transparent electrode layer formed at an upper portion of the CMOS image sensor, one terminal of an AC power source being connected with said transparent electrode layer;
a luminescent layer formed on the transparent
10 electrode layer, said luminescent layer having fluorescent particles and a binder;
a dielectric layer formed at an upper portion of the luminescent layer; and
a contamination-resistance film formed at an upper
15 portion of the dielectric layer.
2. The fingerprint recognition sensor according to claim 1, wherein the transparent electrode layer is directly deposited as a thin film on the CMOS image
20 sensor.
3. A method for manufacturing a fingerprint recognition sensor, comprising the steps of:
providing a CMOS image sensor;

a fingerprint recognition sensor installed at an upper portion of the transparent electrode thin film.

5 6. The fingerprint recognition system according
to claim 5, wherein the CMOS image sensor includes a
ground frame having at least one pin.